

Summary of Angler Survey Results**Supplemental Analysis to A Survey on Recreational and Subsistence Fishing in Southern California Coastal Waters (June 2004)****Prepared by Sharon Lin, EPA Superfund, February 11, 2005****Table 1: Interviews Conducted for Phase I (Fall 2002) and Phase II (Summer 2003) (Figure 1)**

	Phase I	Phase II	Phase I & II
Completed	68% (1181)	73% (1260)	70% (2441)
Non-completed	32% (560)	27% (476)	30% (1036)
Total interviews	100% (1741)	100% (1736)	100% (3477)

Table 2: Total interviews based on fishing modes/ethnicity (Figures 2a and 2b)

Angler/Fishing Modes	Pier	Beach/bank	Launch/ramp	Jetty	Charter/party boat
Total Anglers	67% (1634)	9% (214)	8% (199)	10% (246)	6% (148)
Latino	50%	64%	21%	57%	27%
Asian	21%	12%	14%	15%	15%
White	18%	5%	57%	11%	42%
Black/African American	5%	9%	5%	12%	9%
Pacific Islanders		5%			
Others	6%	5%	3%	5%	7%
Total	100%	100%	100%	100%	100%

Figure 1: Phase I and II Interviews

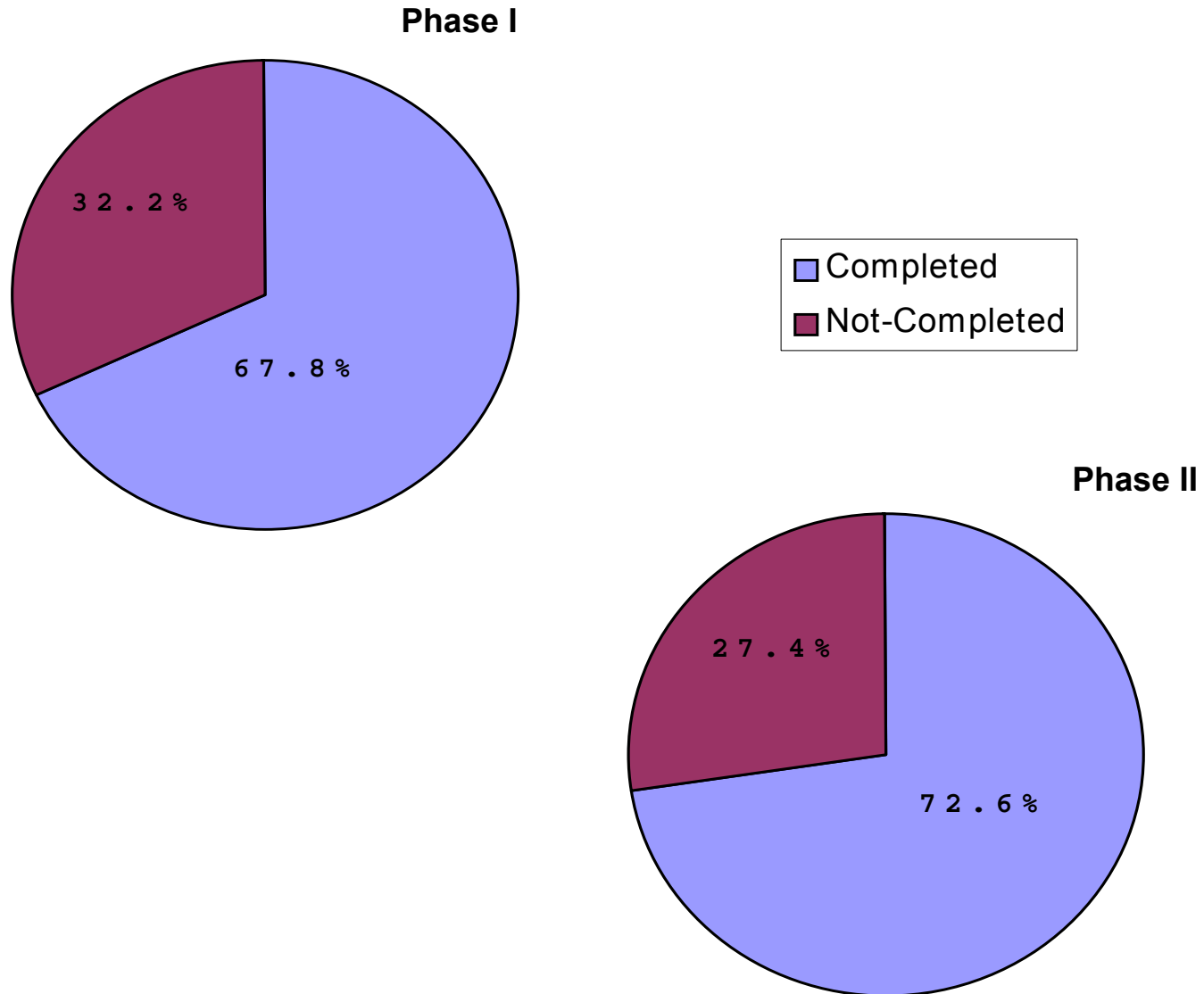


Figure 2a: Total interviews based on fishing mode

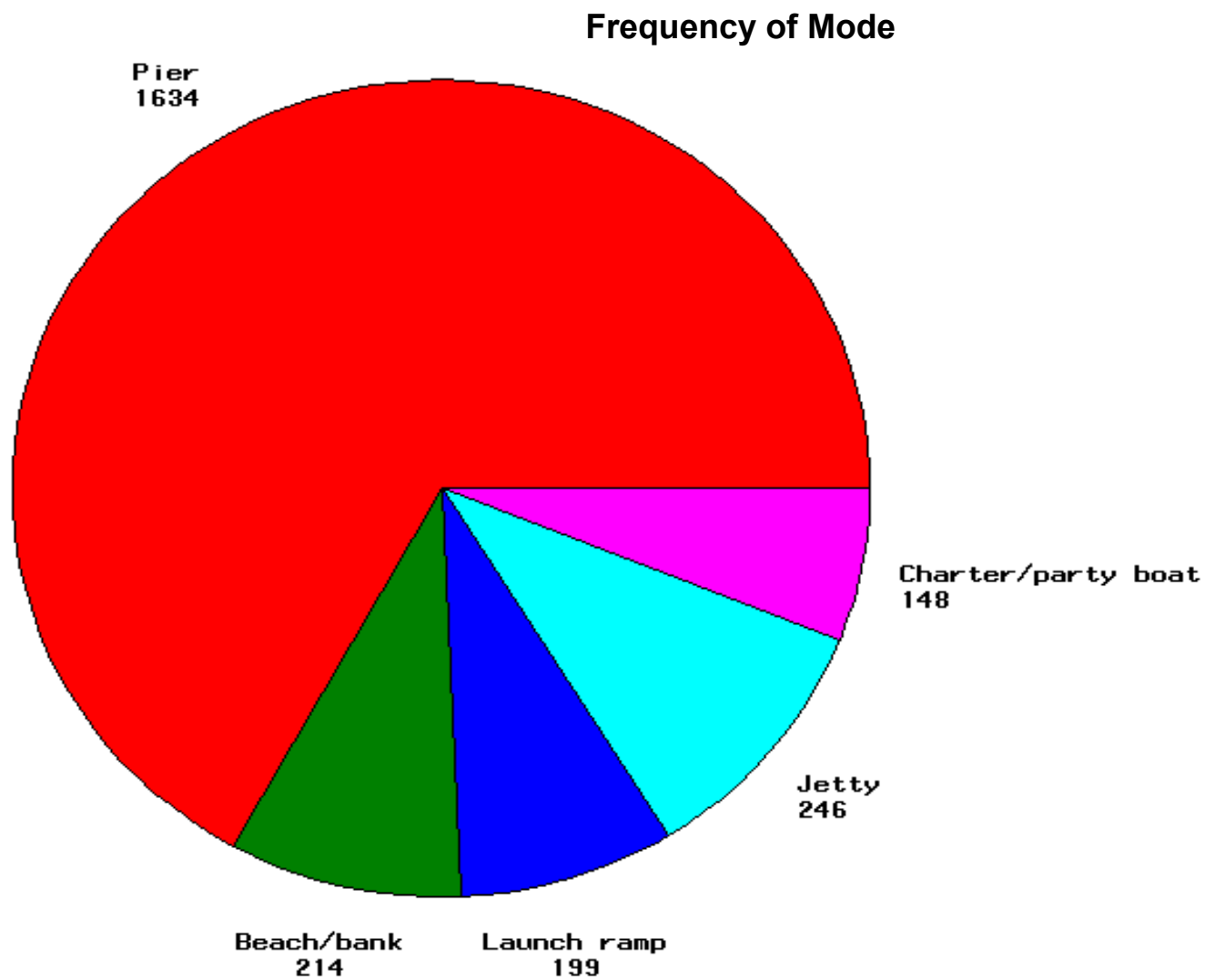


Figure 2b: Angler ethnicity based on fishing mode

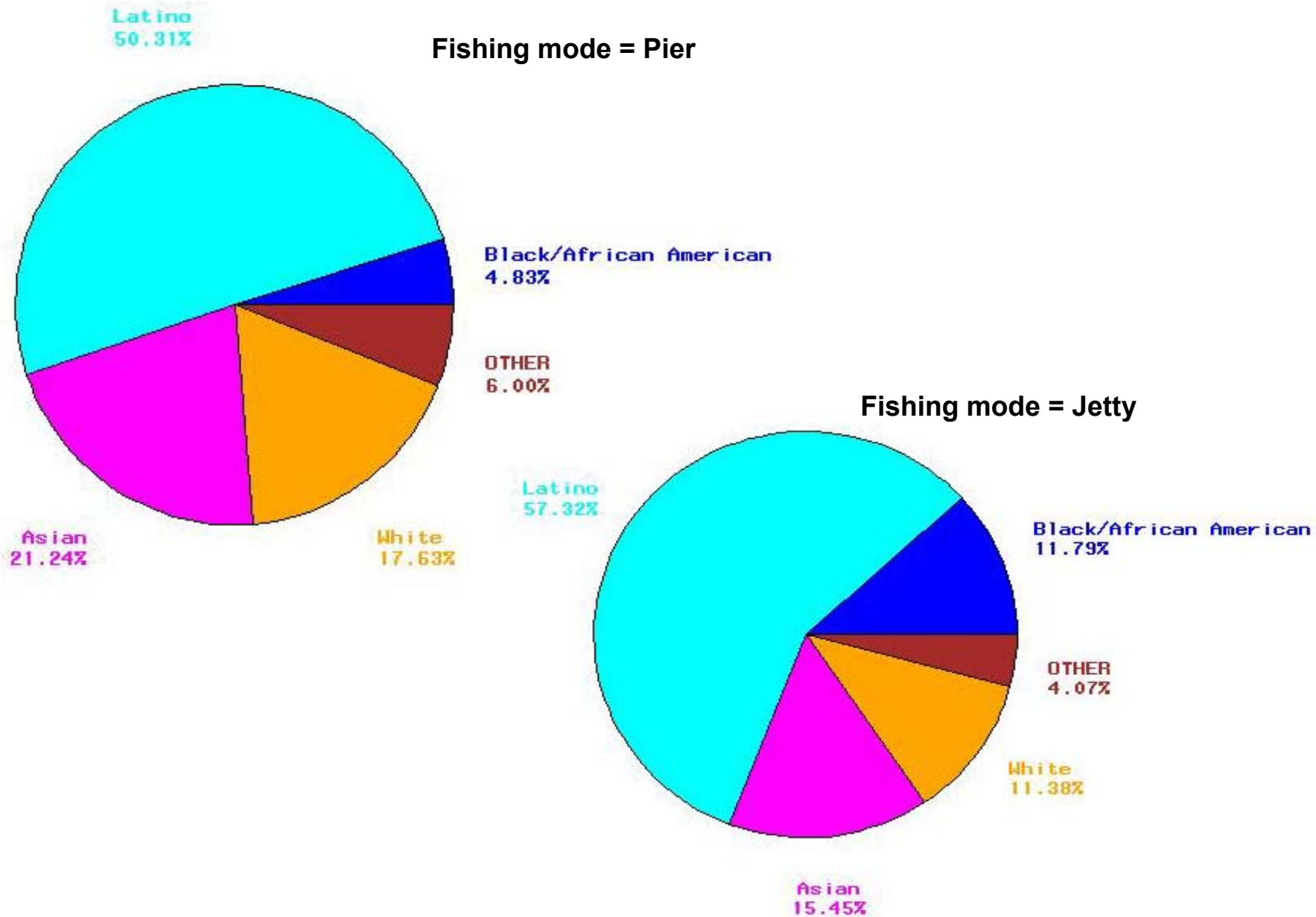
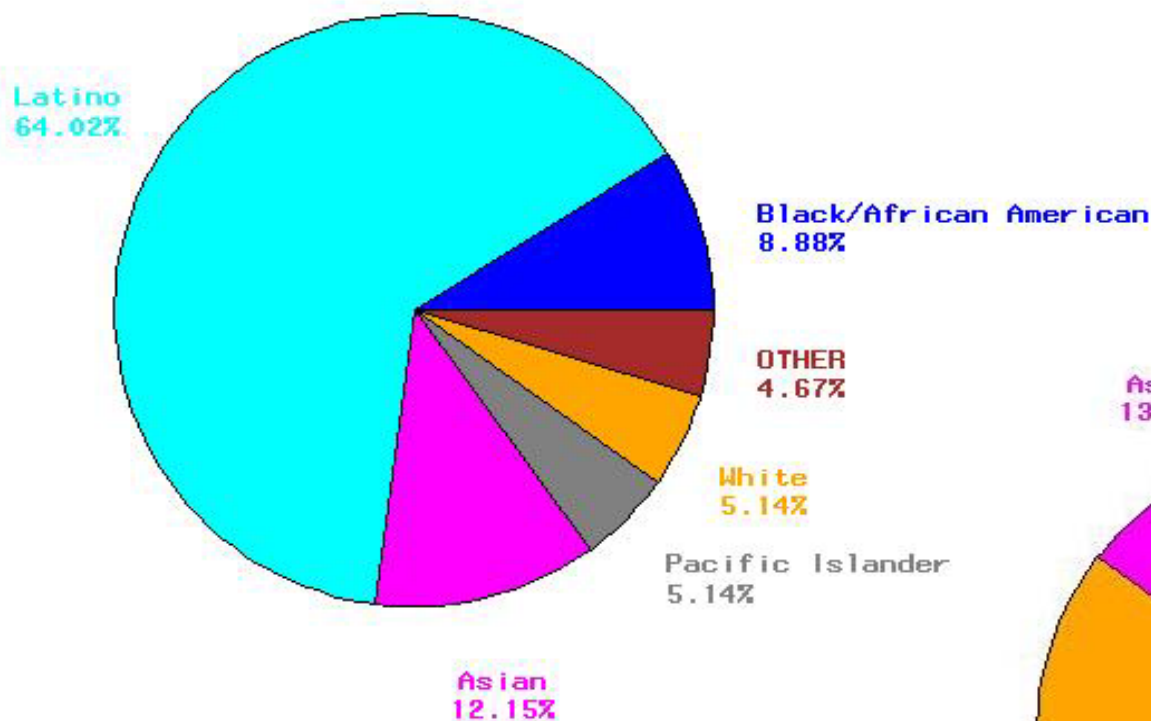


Figure 2b: Angler ethnicity based on fishing mode, cont'd.

Fishing mode = Beach / Bank



Fishing mode = Launch Ramp

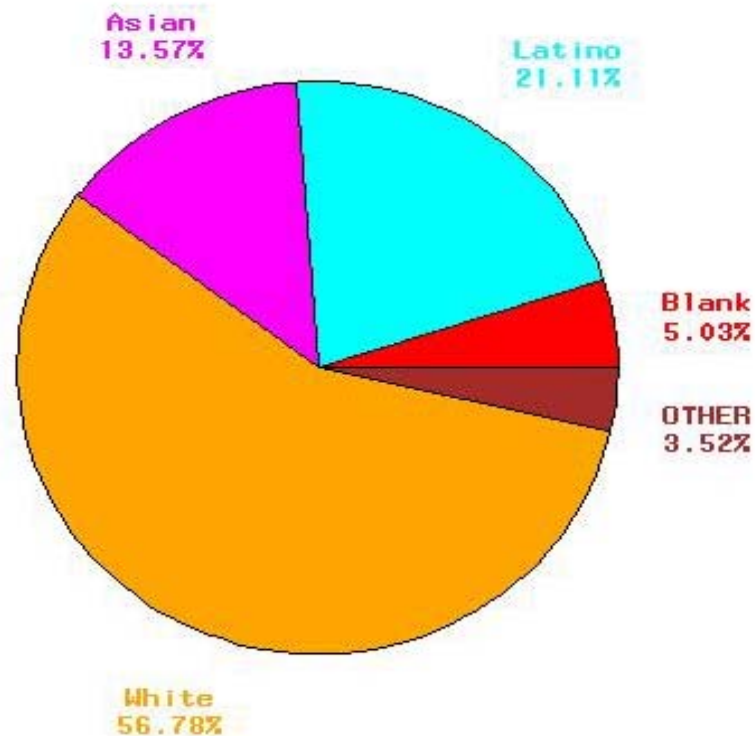


Figure 2b: Angler ethnicity based on fishing mode, cont'd.

Fishing mode = Charter / Party Boat

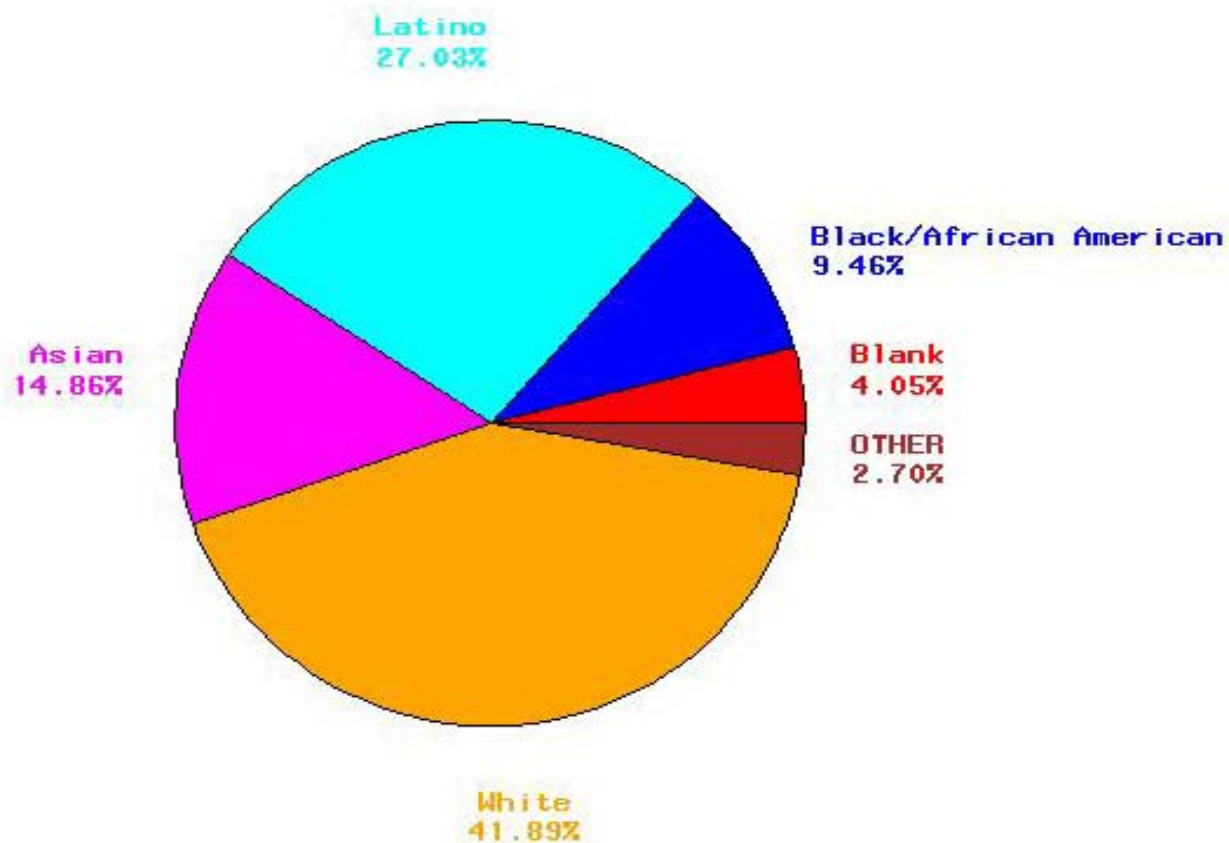


Table 3: Usually catch in ocean waters: Which fish do you usually catch in ocean waters off of Los Angeles and Orange Counties? (Figure 3)

	Pacific	California	White	Barred	Kelp	Top	Surf	Shark	Barracuda	No fish	Other	TOTAL
Interviews/Species	mackerel	halibut	croaker	sandbass	bass	smelt	perches			at all		
Angler response	24% (973)	10% (398)	9% (362)	9% (355)	6% (226)	5% (193)	5% (183)	4% (171)	4% (165)	9% (352)	15% (596)	100% (3974)

Table 4: Do you eat the fish that you catch?

	Fish consumption	Non Fish consumption
	Advisory site	Advisory site
Yes	59% (792)	64% (466)
No	40% (541)	35% (259)
Blank	1% (11)	1% (7)
Overall response	100% (1344)	100% (732)

Table 5: Does anyone else in your household eat the fish you catch?

	Fish consumption	Non Fish consumption
	Advisory site	Advisory site
Yes	52% (696)	56% (412)
No	47% (635)	42% (310)
Blank	1% (13)	2% (10)
Overall response	100% (1344)	100% (732)

Table 6: Does kids under 18 and/or women between age of 15-45 eat the fish you catch?

	Fish consumption	Non Fish consumption
	Advisory site	Advisory site
Kids under 18	63% (842)	37% (490)
Women (15-45)	63% (842)	37% (490)

Non - Fish consumption advisory sites:

Marine del rey jetties
 Santa Monica pier
 22nd Street Landing
 Dave's launch ramp
 Beach city charters & rentals
 Shoreline village jetty, piers.
 Seaport village jetty
 Marina Stadium Alamitos Bay (beach)
 King harbor
 Venice pier
 Hermosa beach pier
 Fisherman's village
 Manhattan beach pier
 Sunset Aquatic Park launch ramp
 Sunset to Huntington beaches
 Huntington beach pier
 Seal beach pier

Fish consumption advisory sites:

LA harbor/LB sportsifhing
 Cabrillo pier & jetty
 Pier J
 Abalone Cove
 Royal Palms
 Santa Monica Bay (North end)
 Santa Monica Bay (South end)
 Palos Verdes
 Alamitos Bay west jetty
 Redondo beach pier
 Malibu beach pier
 Belmont pier/Cherry beach
 Newport beach pier

Figure 3. Usual Catch in Ocean Waters

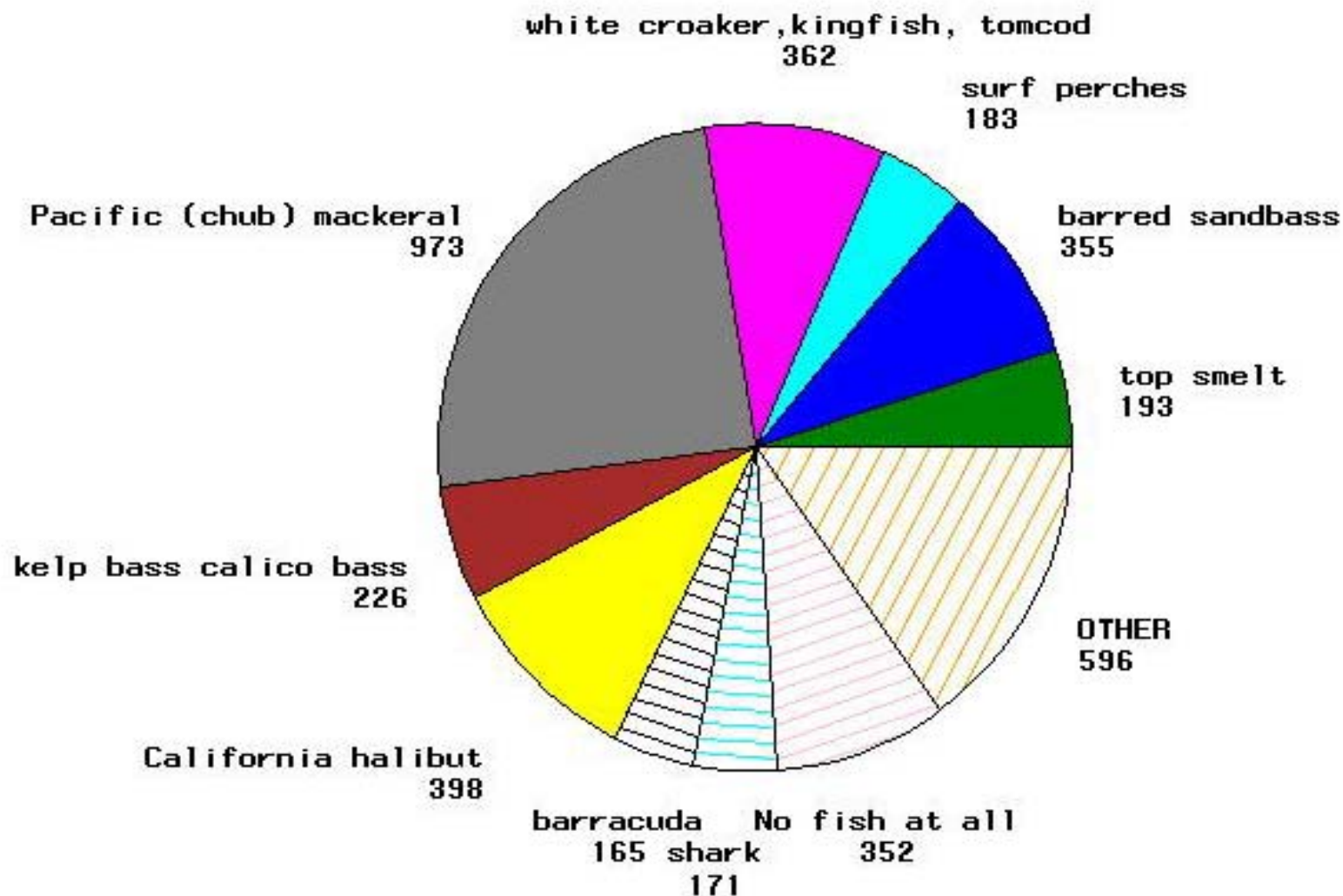


Table 7a: Advisory awareness: Have you seen, read, heard health advisories?

	Fish consumption	Non Fish consumption
	Advisory sites	Advisory site
Yes	57%	54%
No	43%	46%
Total anglers interviewed	100% (1576)	100% (865)

Table 7b: Advisory awareness at Fish Consumption Advisory sites by ethnicity

	Yes	No	TOTAL
Latino	53% (424)	47% (370)	100% (794)
Asian	53% (171)	47% (153)	100% (324)
White	72% (190)	28% (75)	100% (265)
Black/African American	62% (55)	38% (34)	100% (89)
Pacific Islanders	43% (13)	57% (17)	100% (30)

Table 8a: how have you gotten information on the health advisories about eating fish (interviews at Fish Consumption Advisory Sites)?

	Blank/ don't remember	Posted signs	Other	TOTAL
Latino	86%	7%	5%	98%
Asian	87%	6%	7%	100%
White	80%	9%	11%	100%
Black/African American	82%	8%	10%	100%
Pacific Islanders	90%	5%	5%	100%
Overall response	86% (6746)	7% (571)	7% (556)	100% (7873)

Table 8b: how have you gotten information on the health advisories about eating fish (interviews at NON Fish Consumption Advisory Sites)?

	Blank/ don't remember	Posted signs	Other	TOTAL
Latino	87%	5%	8%	100%
Asian	90%		10%	100%
White	83%	5%	12%	100%
Black/African American	87%	5%	8%	100%
Pacific Islanders	82%	8%	10%	100%
Overall response	86%	5%	9%	100%

Table 9: Preferred way to get information about health advisory: which is the best way to get information to you about health advisories about eating fish? (Figure 4)

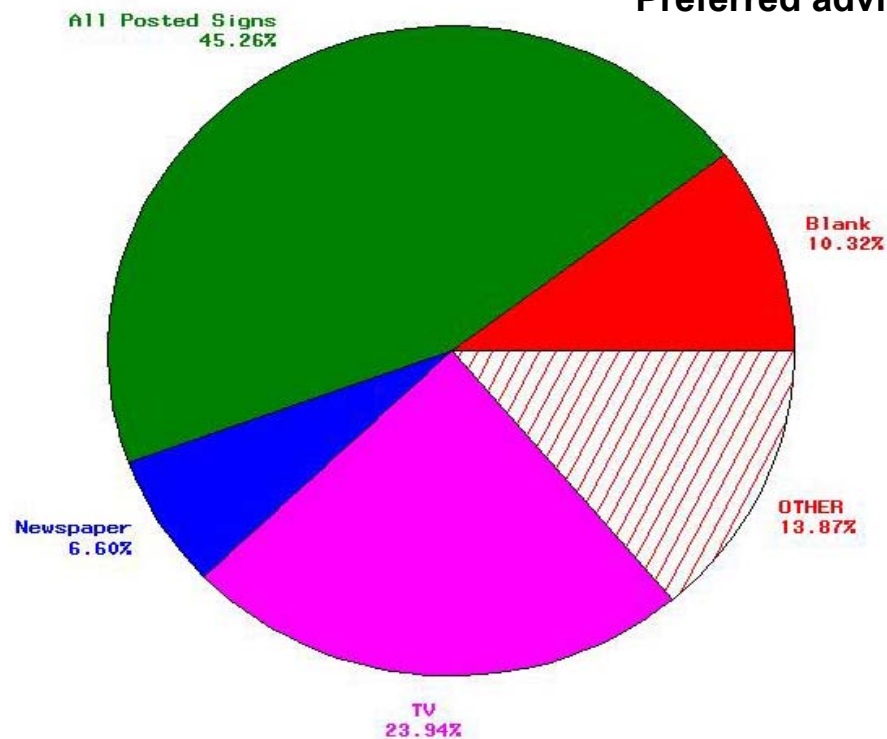
							Fishing license			
	Posted signs	Newspaper	TV	Internet	Magazine	Brochure	booklet	Others	Blank	TOTAL
Latino	45%	7%	24%					14%	10%	100%
Asian	42%	14%	17%	6%				11%	10%	100%
White	43%	11%	13%	7%	5%			10%	11%	100%
Black/African American	48%	10%	17%	4%		4%		6%	10%	99%
Pacific Islanders	40%	13%	23%	5%	5%		5%	3%	8%	102%

Table 10: Behavioral changes due to fish consumption advisory (Figures 5a and 5b)

			Avoid/fish less in certain locations	Eat less fish	Change way to clean/ prepare fish	Other
	Have made no changes	Avoid/eat less kinds of fish				
Latino	43% (283)	31% (203)	8% (54)	7% (49)	7% (45)	4% (29)
Asian	37% (93)	40% (99)	6% (16)	9% (22)	5% (13)	2% (6)
White	46% (179)	30% (117)	8% (32)	8% (31)	4% (14)	4% (19)
Black/African American	38% (34)	37% (33)	8% (7)	7% (6)	6% (5)	6% (5)
Pacific Islanders	50% (10)	30% (6)	10% (2)	10% (2)		
Overall response	43% (632)	32% (477)	8% (116)	8% (116)	5% (80)	4% (63)

Figure 4: Preferred advisory method by ethnicity

Preferred advisory methods for Latinos



Preferred advisory methods for Blacks / African Americans

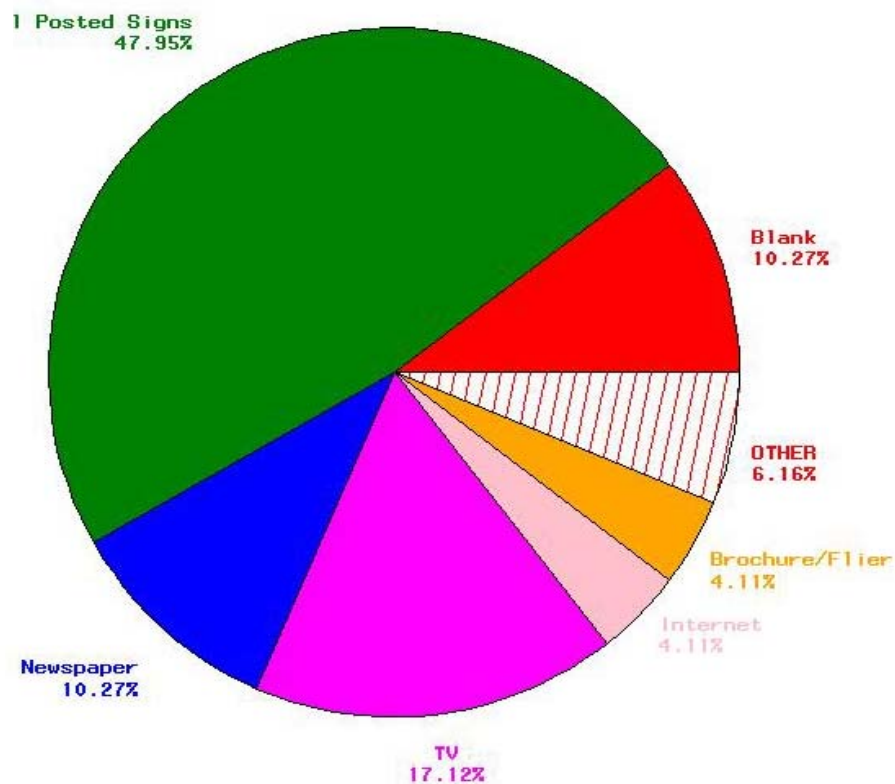


Figure 4: Preferred advisory method by ethnicity, cont'd.

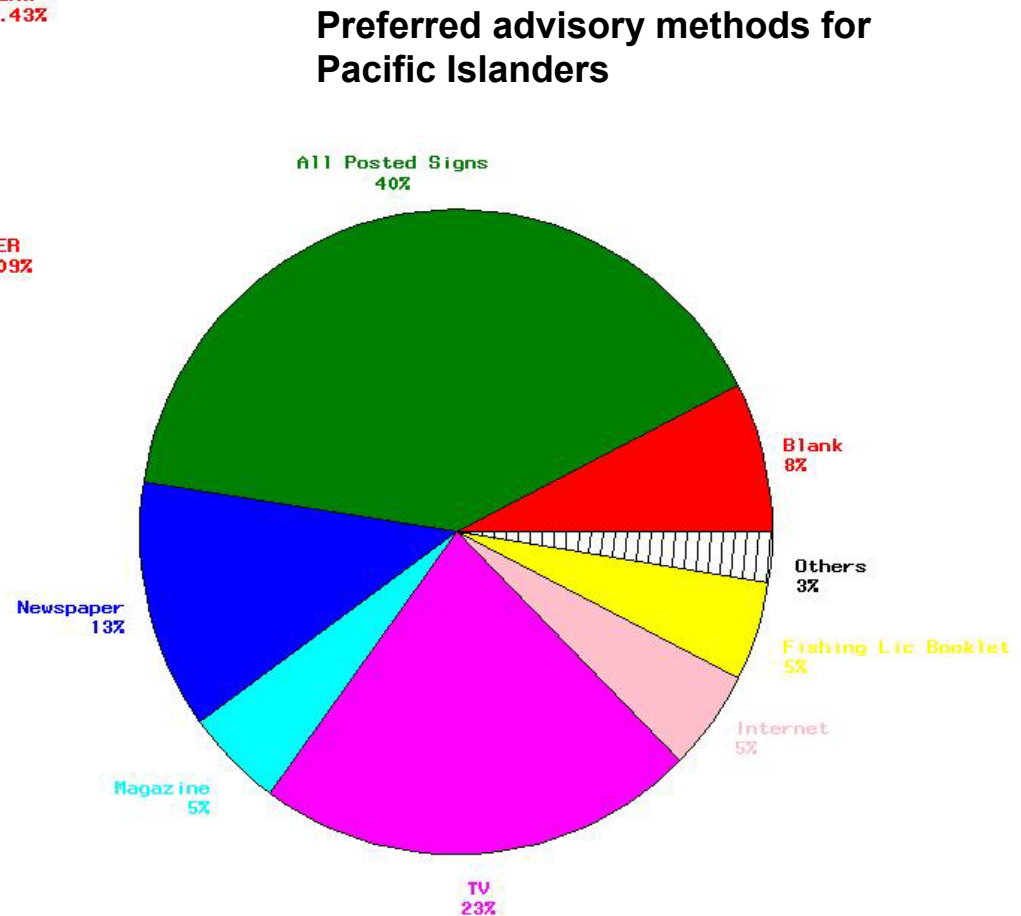
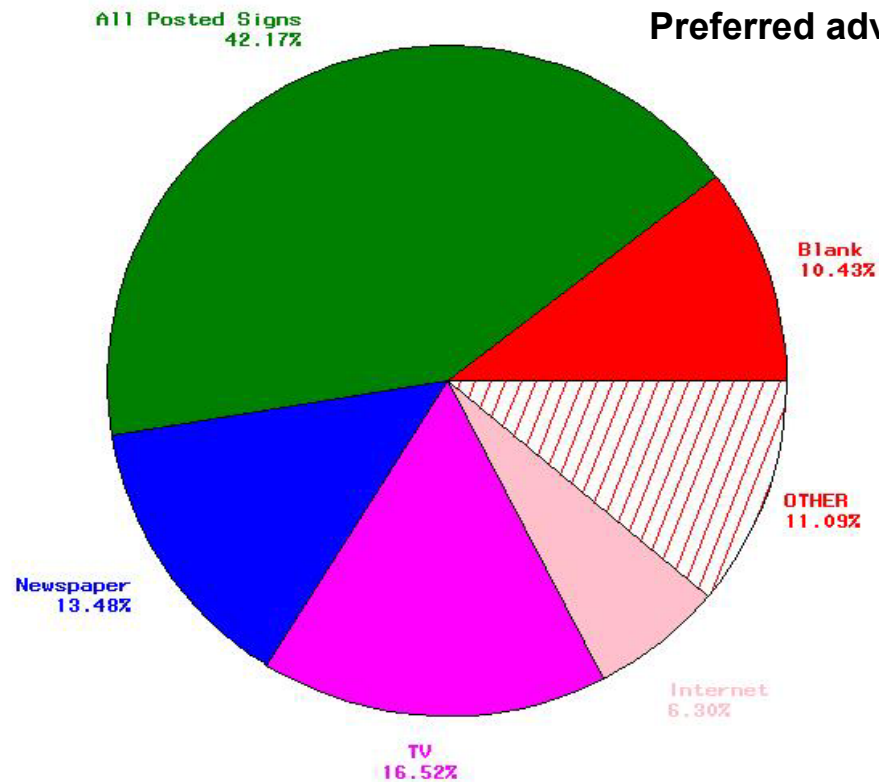


Figure 4: Preferred advisory method by ethnicity, cont'd.

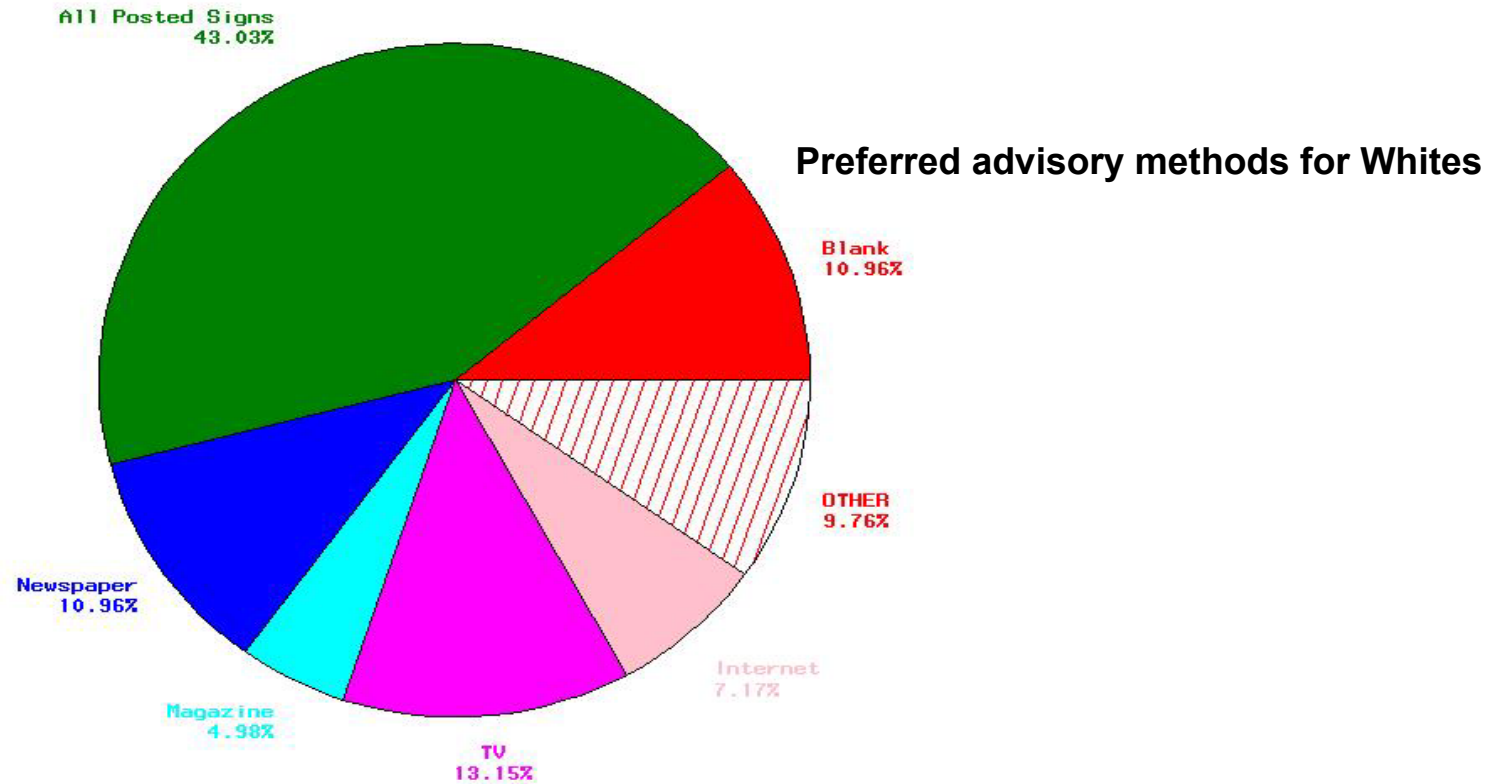


Figure 5a: Behavioral changes due to fish consumption advisory

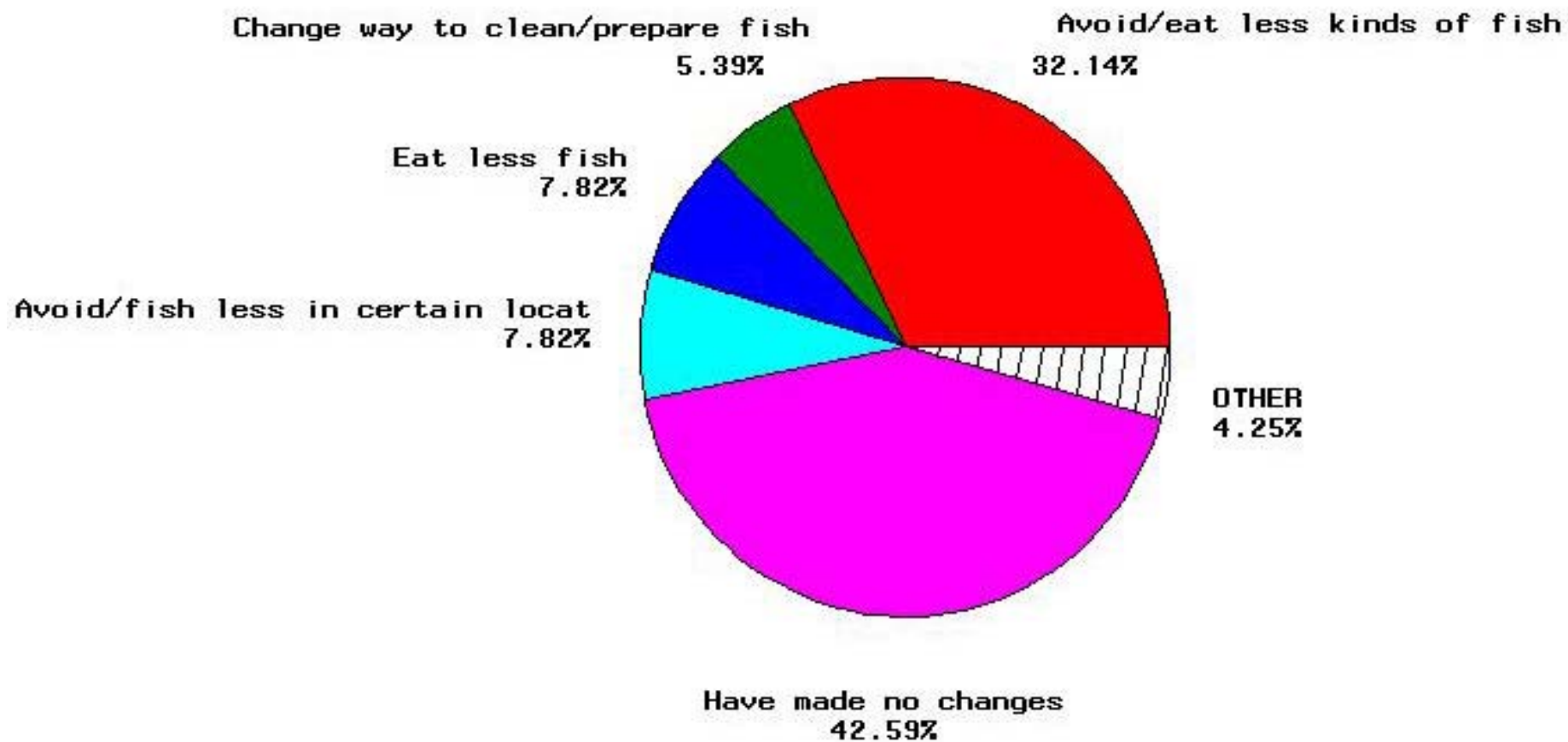
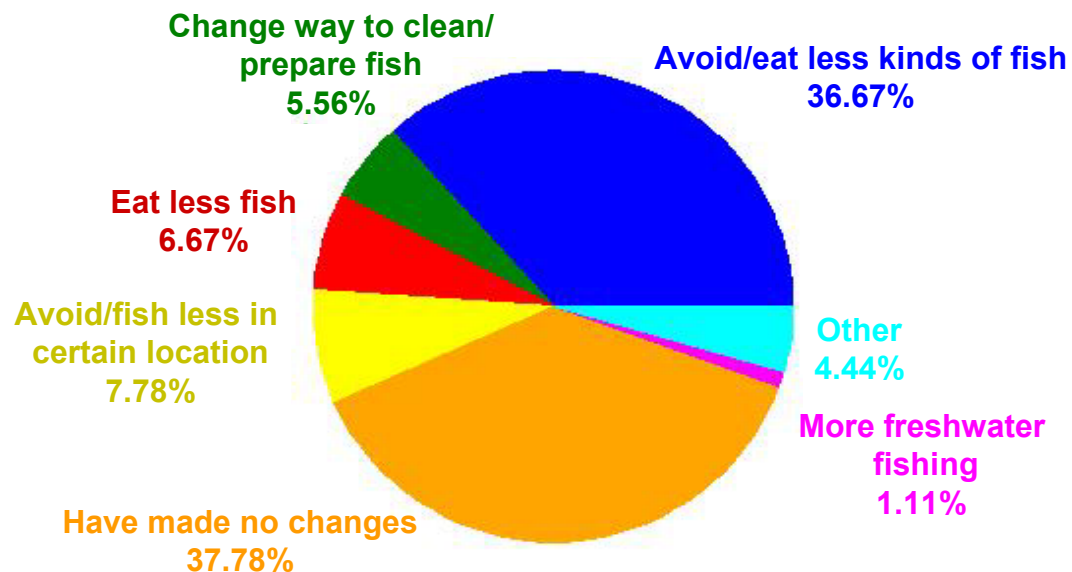


Figure 5b: Behavioral change

Behavioral change (Blacks / African Americans)



Behavioral change (Asians)

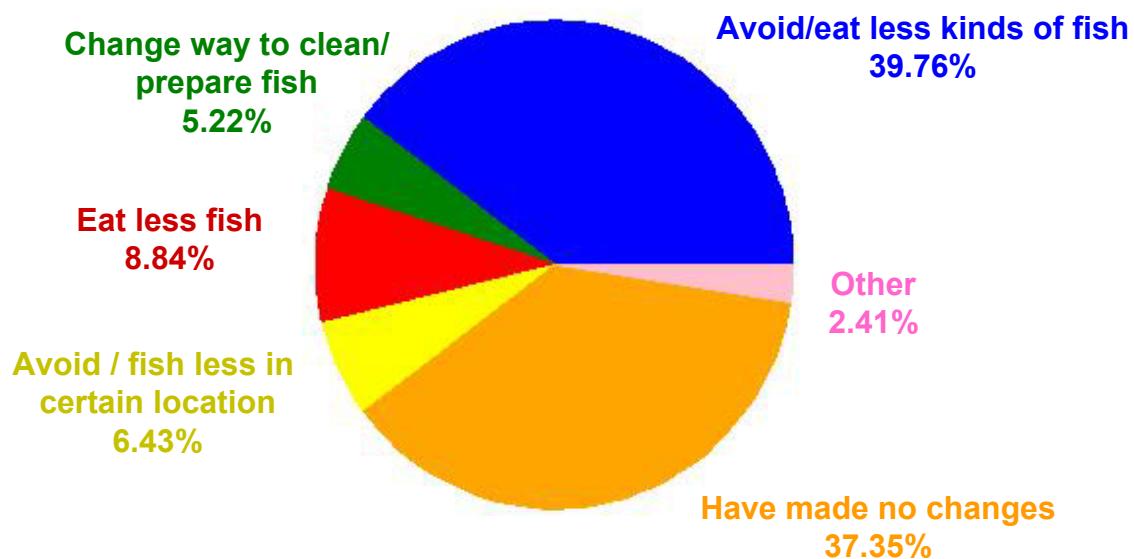
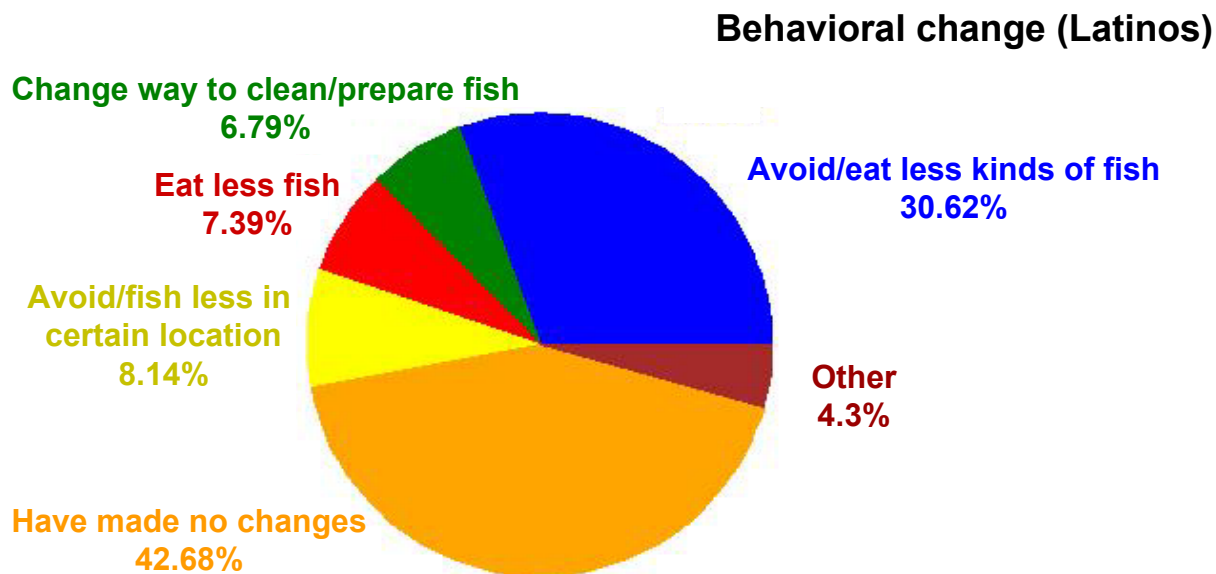


Figure 5b: Behavioral change, cont'd.



Behavioral change (Pacific Islanders)

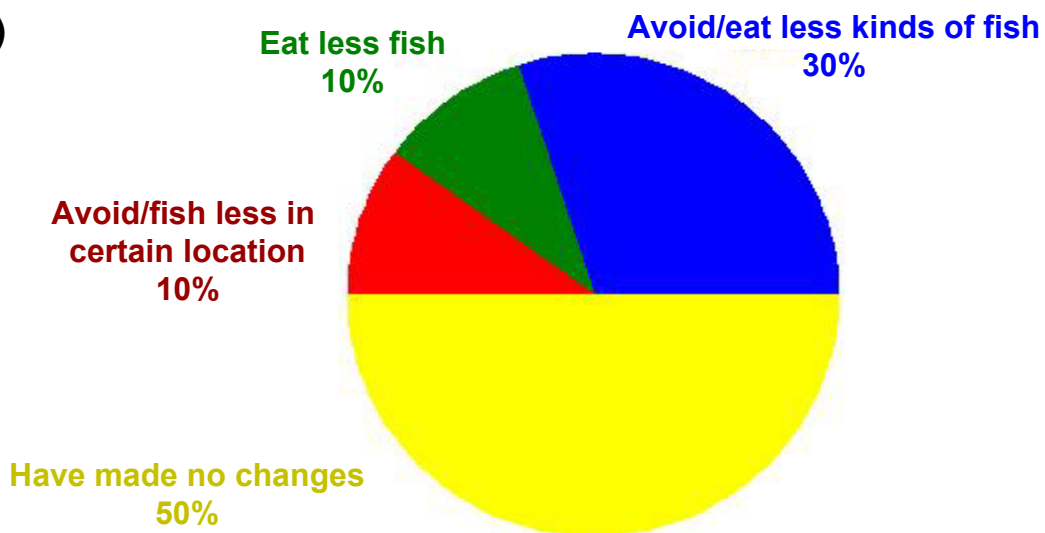


Figure 5b: Behavioral change, cont'd.

